

LIMITED SITE ASSESSMENT REPORT

Townsend, Inc.
Facility ID: 0-0-0000032430

1101 E. Third St.
Siler City, Chatham County

Property Owner:

Southeast Land Holdings
c/o David Welch
PO Box 99
Pfafftown, NC 27040

July, 2016

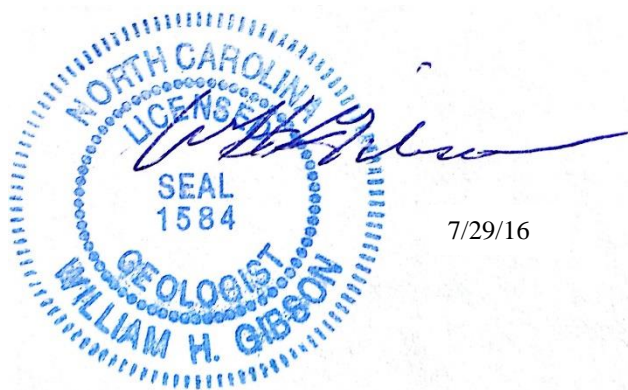
Prepared By:

W.H. Gibson, L.G.

For:

Cohesion, Inc.

5216 Yates Mill Pond Road
Raleigh, North Carolina 27606
Phone: 919-233-8626
Fax: 919-233-8909



Cohesion Project No. TF-2015066

W.H. Gibson, L.G.
Geologists License No. 01584

EXECUTIVE SUMMARY

Chatham County records indicate the processing facility was constructed in 1994. The property is located in a mixed use area of Siler City. The topographic drainage is toward the southeast as indicated on the USGS topographic map.

Cohesion, Inc. was contracted to remove a 10,000 gallon gasoline UST and a 10,000 gallon diesel fuel UST. On August 12, 2015, Cohesion personnel excavated the overburden and sufficient surrounding soil to remove the diesel fuel UST. On August 13, 2015, Cohesion personnel excavated the overburden and sufficient surrounding soil to remove the gasoline UST. Petroleum odor was observed in soil around the gasoline UST. Laboratory analysis (TPH-DRO) of soil samples collected beneath the diesel fuel UST did not detect petroleum hydrocarbons at a concentration exceeding the NCDENR action level of 10 mg/kg. Laboratory analysis (TPH-GRO) of soil samples collected beneath the gasoline UST detect petroleum hydrocarbons at a concentration exceeding the NCDENR action level of 10 mg/kg indicating there had been a release from the gasoline UST.

Due to the evidence of petroleum impact to the excavated soil, use of the soil to backfill the excavation was prohibited. Impacted soil was stockpiled onsite. Approximately 411.93 tons of impacted soil were loaded on August 14 and August 17, 2015 for transport to Earthtec of NC, Inc. in Sanford.

A groundwater monitoring well was installed on May 20, 2016 to a depth of 33 feet. Laboratory analyses of the groundwater sample detected contaminants at concentrations exceeding the 15A NCAC 2L Groundwater Standards.

Chatham County records indicate there are at least 3 permitted water supply wells onsite within 250 feet. Town of Siler City public water supply is available to the area. Surface waters are not indicated within 500 feet of the source area.

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**LIMITED SITE ASSESSMENT REPORT
TOWNSENDS, INC.
FACILITY ID: 0-0-0000032430
1101 E. THIRD ST.
SILER CITY, NORTH CAROLINA (CHATHAM COUNTY)**

A. SITE INFORMATION

1. Site Identification

Report Date: July 2016
Facility I.D. No.: 0-0-0000032430 **Incident No.:** not assigned
Site Name: Townsends Inc. Property
Location: 1101 E. Third St.
Siler City, Chatham County
Latitude: N35.73208° **Longitude:** W79.45079°

2. Property and Underground Storage Tank (UST) Owner Information:

UST Owner: Southeast Land Holdings, LLC
UST Operator: to be determined
Property Owner: Southeast Land Holdings, LLC
c/o David Welch
PO Box 99
Pfafftown, NC 27040
Property Occupant: vacant
Contractor: Cohesion, Inc.
5216 Yates Mill Pond Road, Raleigh, North Carolina 27606
919-233-8626
Analytical Laboratory: ESC, 12065 Lebanon Rd., Mt. Juliet, TN 37122
615-758-5858

3. Release Information:

Date Discovered: 8/12/15
Est. Quantity of Release: unknown
Cause of Release: unknown
Source of Release: UST system
Size / Content of UST System: 10,000 gallon capacity, diesel fuel
10,000 gallon capacity, gasoline

B. RECEPTOR INFORMATION AND RISK CLASSIFICATION

A receptor survey was conducted and is attached in Appendix A. The following information is a summary of the survey:

1. Water Supply Wells:

Chatham County records indicate at least 3 onsite supply wells. No other water supply wells were reported.

2. Public Water Supplies:

Public water supply is available. The site is in a mixed use area within the city limits of Siler City.

3. Topography, Drainage and Surface Waters:

Topographic drainage appears generally toward the southeast as indicated on the USGS topographic map. No surface waters are indicated on the USGS topographic map within 500 feet of the property. The topography of the area is illustrated in Figure 1.

4. Wellhead Protection Areas:

There are no wellhead protection areas within 1,500 feet from the referenced facility.

5. Deep Aquifers in the Coastal Plain Physiographic Region:

According to the map of "Geology of North Carolina" published by the NCDENR in 1985, the facility is not located in the Coastal Plain Physiographic Region.

6. Subsurface Structures:

The referenced structure footings are located within 10 feet of the source area of the release.

7. Land Use:

Land use within 1,500 feet of the referenced site is mixed commercial and residential.

8. Property Owners and Occupants:

The referenced property is currently an industrial site not in operation.

The Limited Site Assessment Risk Classification and Land Use form was completed from the survey information and is attached in Appendix B.

C. FIELD ACTIVITIES

Cohesion, Inc. was contracted to remove a 10,000 gallon gasoline UST and a 10,000 gallon diesel fuel UST. On August 12, 2015, Cohesion personnel excavated the overburden and sufficient surrounding soil to remove the diesel fuel UST. Laboratory analysis (TPH-DRO) of soil samples collected beneath the diesel fuel UST did not detect petroleum hydrocarbons at a concentration exceeding the NCDENR action level of 10 mg/kg.

On August 12, 2015, Cohesion personnel excavated the overburden and sufficient surrounding soil to remove the gasoline UST. Dry ice and a vacuum were applied to the tank to lower oxygen levels, remove explosive vapors and allow for safe tank removal. Petroleum odor was observed in soil around the gasoline UST. Accumulation of water and instability of excavation sidewalls necessitated removal of additional soil. It was necessary to halt tank removal in order to remove electrical utilities preventing additional soil removal and tank removal.

On August 13, 2015, following removal of the utilities, dry ice and vacuum were again applied to the gasoline tank. The Siler City Fire Inspector approved tank removal after explosive vapor and oxygen levels were sufficiently low to allow removal to proceed safely. Laboratory analysis (TPH-GRO) of soil samples collected beneath the gasoline UST detected petroleum hydrocarbons at a concentration exceeding the NCDENR action level of 10 mg/kg indicating there had been a release from the gasoline UST.

Due to the evidence of petroleum impact to the excavated soil, use of the soil to backfill the excavation was prohibited. Impacted soil was stockpiled onsite. Laboratory analyses (TPH-DRO/GRO) of stockpile soil samples confirmed petroleum impact at concentrations exceeding the NCDENR action level. Approximately 411.93 tons of impacted soil were loaded on August 14 and August 17, 2015 for transport to Earthtec of NC, Inc. in Sanford. On August 17, 2015, product supply piping and fuel dispensers were removed.

A groundwater monitoring well was installed on May 20, 2016 to a depth of 33 feet. Groundwater was encountered at 28 feet below TOC. A sample of groundwater was collected for submittal for laboratory analyses by EPA Method 602/625 and MADEP VPH/EPH. The well construction record is included in the Appendix C. The location of MW-1 is indicated on Figure 2.

D. SAMPLING RESULTS

Soil impacted by petroleum at concentrations exceeding the NCDENR action level remains in the subsurface at the former gasoline UST location, beneath a section of the gasoline supply pipe, and beneath the dispenser.

Laboratory analyses of soil samples collected beneath system piping and dispensers detected impact to soil at concentrations exceeding the NCDENR action level at one location along the gasoline supply piping and at the dispensers. Regulations require cleanup (abatement) of sites where a release from a UST is confirmed. Laboratory data are summarized in Table 1.

Laboratory analyses of the groundwater sample detected petroleum type contaminants at concentrations exceeding the 15A NCAC 2L Groundwater Standards. Analytical data are summarized in Table 2. Analytical laboratory reports are included in Appendix D.

E. CONCLUSIONS AND RECOMMENDATIONS

Chatham County has record of 3 supply wells onsite. Other unrecorded wells might be onsite. There were no other water supply wells reported. Public water supply is available. Surface waters are not indicated within 500 feet.

The findings indicate soil contaminated at concentrations exceeding the NCDEQ TPH-DRO/GRO action level remains in the subsurface. Shallow groundwater has been impacted by the release at concentrations exceeding the 15A NCAC 2L Groundwater Standards. The laboratory results and Chain of Custody Record (COC) are included in Appendix D.

Activities and findings reported herein are based on reasonable effort toward accomplishment of regulatory requirements. However, we are not liable for subsequent findings, such as previously un-reported wells or wells not readily identifiable due to conditions at the time of the reconnaissance, potentially changing the conclusions, recommendations, and eventual outcome of this report and the incident status.

TABLES

Table 1
Summary of Soil Sample Analyses
1101 E. Third St., Siler City, Chatham County

Analytical Methods		mg/kg									NCDENR
Constituents	ID #	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9	Action Limit
TPH 3550	DRO	<4.72	<4.74				<5.76	<5.58	<5.45	<5.44	10*
TPH 5030	GRO			3630	113	435					10*
Sample Collection Information: Date		8/13/2015	8/13/2015	8/13/2015	8/13/2015	8/13/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	
Depth (feet)		15	15	16	16	16	3	3	3	3	
Location		excavation	excavation	excavation	excavation	excavation	product line	product line	product line	product line	

Analytical Methods		mg/kg						NCDENR
Constituents	ID #	S-10	S-11	S-12	S-13	SP-1	SP-2	Action Limit
TPH 3550	DRO				771	47.8	<4.52	10*
TPH 5030	GRO	<1.75	<1.73	11.6	4.11	739	679	10*
Sample Collection Information: Date		8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/13/2015	8/17/2015	
Depth (feet)		3	3	3	2.5			
Location		product line	product line	product line	product line	stockpile	stockpile	

* NCDENR's TPH Standard

** Detection limit greater than Soil-to-Groundwater Standard

CI - Considered Immobile

NA - Not Available

NL - Not listed in NCDENR's Standard

ND - Not Detected

Table 2
Summary of Water Sample Analyses
1101 E. Third St., Siler City, Chatham County

Analytical Methods		Concentrations (mg/L)	
Constituents	ID #	MW-1	2L Standard*
MADEP Methods			
C5 - C8 Aliphatics	C5 - C8 Aliphatics	0.395	0.40
C9 - C18 Aliphatics	C9 - C12 Aliphatics	<0.1	0.70
	C9 - C18 Aliphatics	<0.1	
C19 - C36 Aliphatics	C19 - C36 Aliphatics	<0.1	10.00
C9 - C22 Aromatics	C9 - C10 Aromatics	<0.1	0.2
	C11 - C22 Aromatics	<0.1	
EPA Method 602			
MTBE		0.608	0.02
benzene		<0.001	0.001
toluene		<0.005	0.600
ethylbenzene		<0.001	0.600
xylene		<0.003	0.500
Di-isopropyl ether		0.0146	0.070
EPA Method 625			
Acenaphthene		<0.001	0.080
Acenaphthylene		<0.001	0.200
Anthracene		<0.001	2.000
Fluoranthene		<0.001	0.300
Fluorene		<0.001	0.300
Phenanthrene		<0.001	0.210
1-methylnaphthalene		<0.001	0.001
2-methylnaphthalene		<0.001	0.030
naphthalene		<0.001	0.006
Pyrene		<0.001	0.200
Sample Collection Date:		5/20/2016	
Depth to Water (feet):		28.00	

* "2L Groundwater Standard" in accordance with NCDENR regulation NCAC 15A
*Subchapter 2L, Classifications and Water Quality Standard Applicable to the
Groundwaters of North Carolina.*

Bold-faced concentrations indicate constituent concentrations in excess of the 2L Groundwater Standard.

ND - Petroleum-related target compounds not detected above method detection limits.

NL - Not listed in NCDENR's Standard the 2L Groundwater Standard.

Table 3**Contiguous Property Owners / Occupants****Date:** Jun-16 **Incident Number and Name:** 1101 E. Third **Facility ID#:**

	Tax Parcel Number/Map ID	Owner/Occupant Name (Last, First, MI)	Address
1	16652	Siler City Warehouse, LLC	1311 E. Eleventh St
2	16770	Sunshine Lodge, LLc	1240 E. Eleventh St
3	16852	Chatham Warehouse Leasing	1200 E. Third St
4	16850	Genie Coble	1100 E. Third St
5	15070	Ahzai, LLC	901 E. Third St.
6	17246	Jonathan Johnson	1206 E. Eleventh St.
7			
8			
9			
10			

Table 4

Water Supply Well Information

Date: Jul-16 Incident Number and Name: 1101 E. Third Facility ID#: residence

Well #	Well Owner / User	Address	Phone Number	Well Use	Well Depth (ft. BGS)	Type of Well	Well Casing Depth (ft. BGS)	Well Screen Interval (x to y ft. BGS)	Distance from source area of release (ft.)
	Southeast Land Holdings	1101 E. Third St		3 wells		?			<250

* = no response to questionnaire or attempted personal contact, but potential well location

** = water meter observed

Table 5**Monitoring Well Construction Information**

Date: Jul-16 **Incident Number and Name:** 1101 E. Third **Facility ID#:**

Well ID	Date Installed (mm/dd/yy)	Date Water Level Measured (mm/dd/yy)	Well Casing Depth (ft. BGS)	Screened Interval (x to y ft. BGS)	Bottom of Well (ft. BGS)	Top of Casing Elevation (ft.)	Depth to Water from Top of Casing (ft.)	Free Product Thickness (ft.)	Groundwater Elevation (ft.)	Comments
MW-1	5/20/2016	5/20/2016	18	18 - 33	33	NS	28	NP	NS	Type II

ft. BGS = feet below ground surface

NP = no product

NS = not surveyed

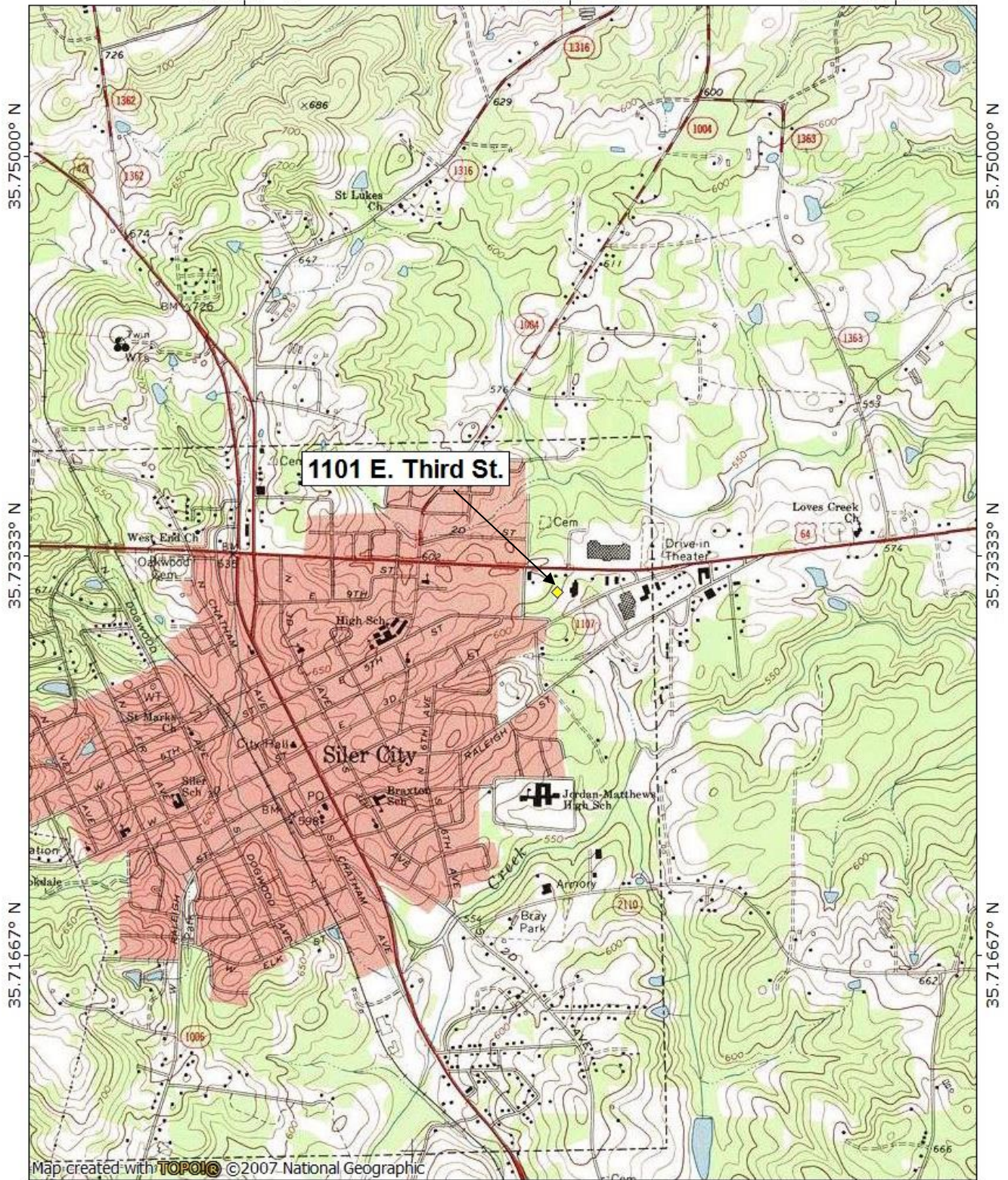
FIGURES

TOPO! map printed on 09/03/15 from "Untitled.tpo"

79.46667° W

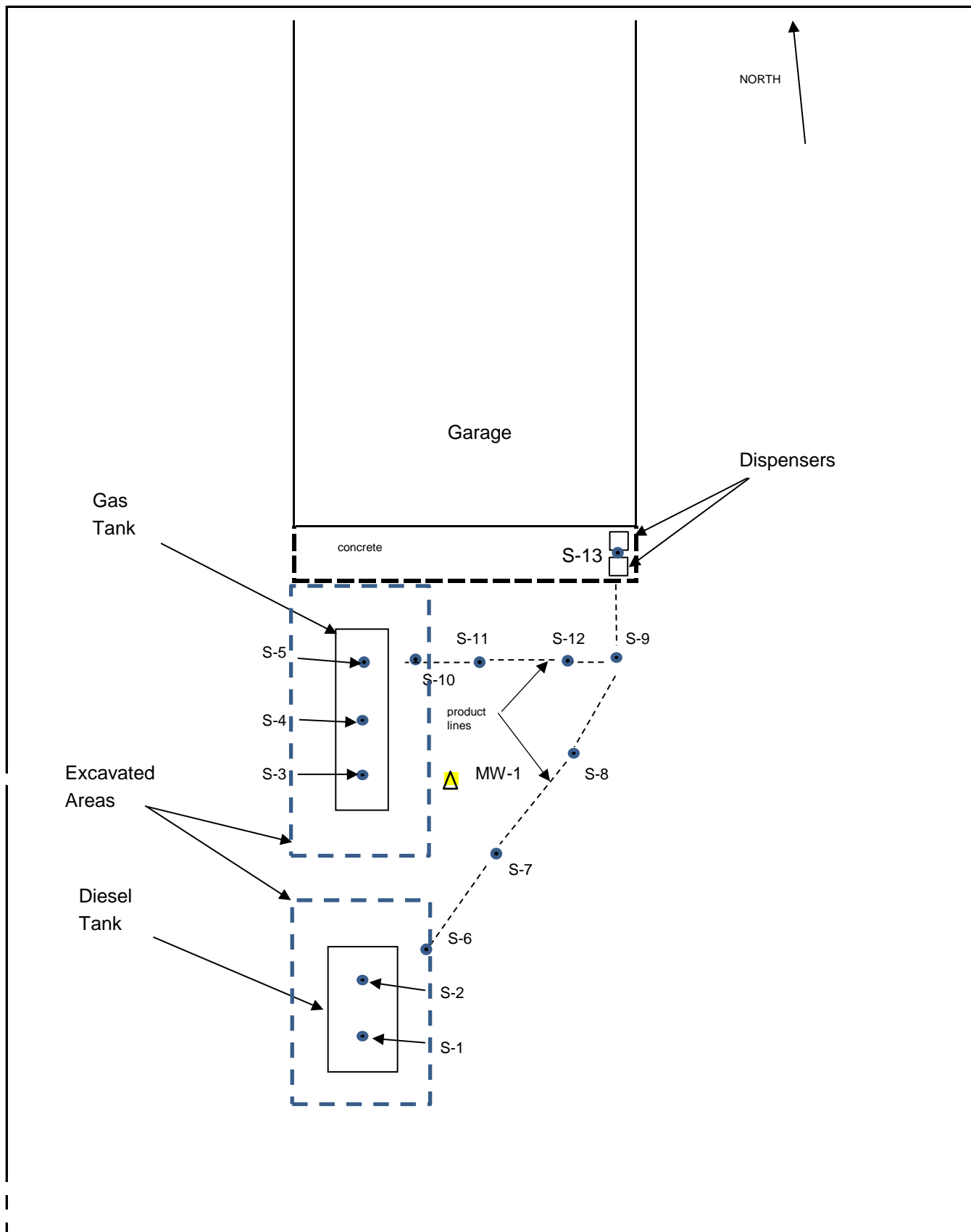
79.45000° W

WGS84 79.43333° W



0.0 0.5 1.0 miles
0.0 0.5 1.0 1.5 km

MN TN
81½°
09/03/15



Cohesion, Inc.

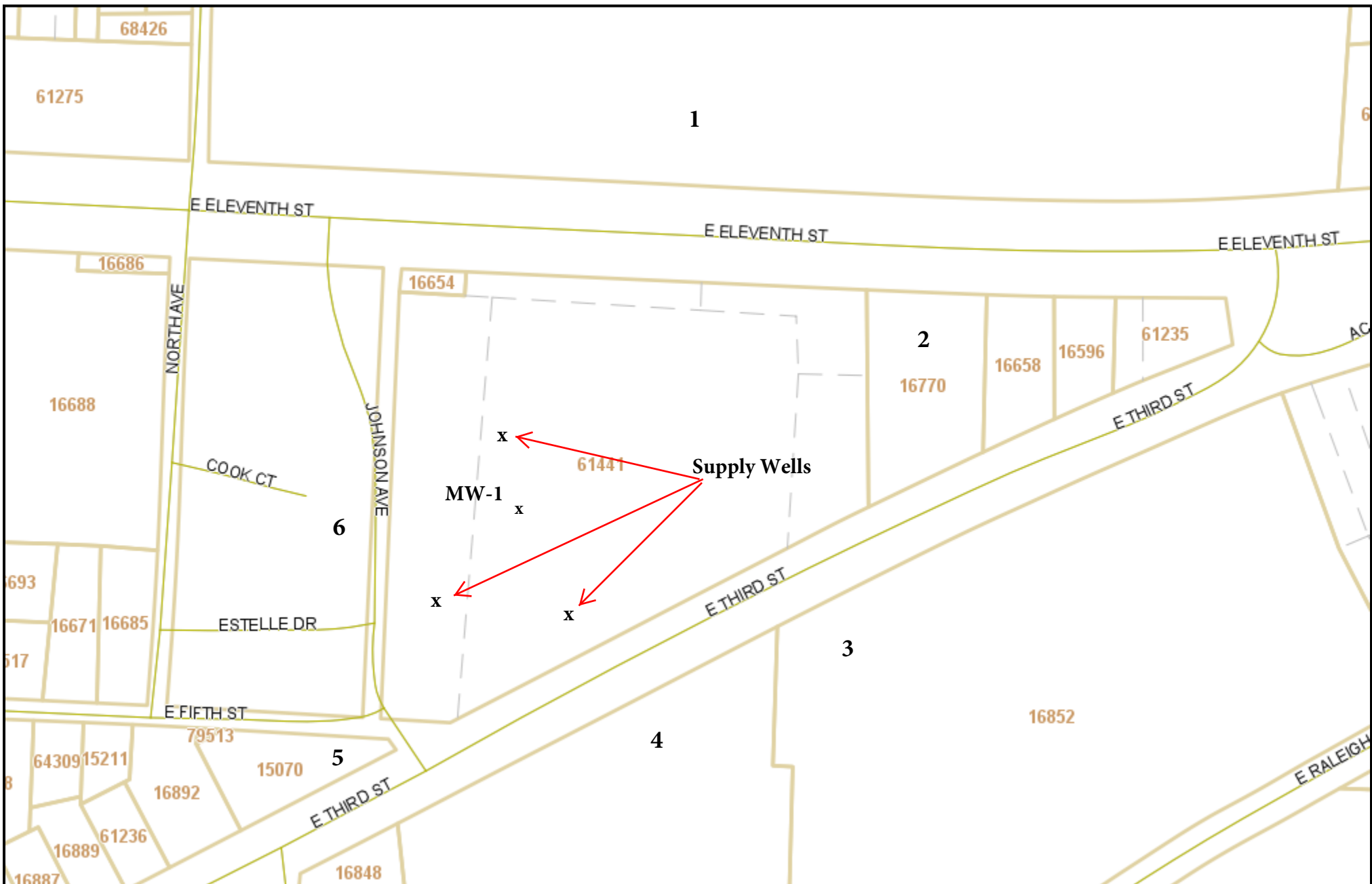


5216 Yates Mill Pond Rd., Raleigh, NC 27606
Ph: 919-233-8626 Fx: 919-233-8909

Site Diagram
1101 E. Third St.
Siler City, Chatham County

Figure 2

0' approx. scale 20'



CHATHAM COUNTY, NC



Property Map

Adjacent Properties & Well Locations

Figure 3

Disclaimer:
The data provided on this map are prepared for the inventory of real property found within Chatham County, NC and are compiled from recorded plats, deeds, and other public records and data. This data is for informational purposes only and should not be substituted for a true title search, property appraisal, survey, or for zoning verification.



One Inch = 200 Feet

APPENDIX A

Receptor Survey

RECEPTOR SURVEY REPORT

Townsend, Inc.
Facility ID: 0-0-0000032430

1101 E. Third St.
Siler City, Chatham County

Property Owner:

Southeast Land Holdings
c/o David Welch
PO Box 99
Pfafftown, NC 27040

July, 2016

Prepared By:

W.H. Gibson, L.G.

For:

Cohesion, Inc.

5216 Yates Mill Pond Road
Raleigh, North Carolina 27606
Phone: 919-233-8626
Fax: 919-233-8909

Cohesion Project No. TF-2015066

Introduction

The intent of the Receptor Survey is to give an overall description including receptors and surface conditions of the referenced site and its surrounding areas. The site location is indicated in Figure 1. Although all the customary efforts were made to identify the receptors on and around the referenced site, this report is not a guarantee that all receptors have been discovered.

Cohesion takes no responsibility for contamination found below or above grade at this site, nor does Cohesion take any responsibility for human losses or property damages, which should occur due to those conditions present.

Site History and Surrounding Area

Chatham County records indicate the processing facility was constructed in 1994. The property is located in a mixed use area of Siler City.

Water Supply Wells:

Chatham County records indicate at least 3 onsite supply wells. No other water supply wells were reported.

Public Water Supplies:

Public water supply is available. The site is in a mixed use area within the city limits of Siler City.

Topography, Drainage and Surface Waters:

Topographic drainage appears generally toward the southeast as indicated on the USGS topographic map. No surface waters are indicated on the USGS topographic map within 500 feet of the property. The topography of the area is illustrated in Figure 1.

Wellhead Protection Areas:

There are no wellhead protection areas within 1,500 feet from the referenced facility.

Deep Aquifers in the Coastal Plain Physiographic Region:

According to the map of "Geology of North Carolina" published by the NCDENR in 1985, the facility is not located in the Coastal Plain Physiographic Region.

Subsurface Structures:

The referenced structure footings are located within 10 feet of the source area of the release.

Land Use:

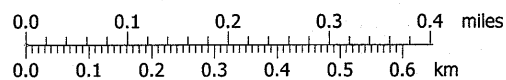
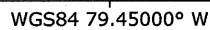
Land use within 1,500 feet of the referenced site is mixed commercial and residential.

Property Owners and Occupants:

The referenced property is currently an industrial site not in operation.

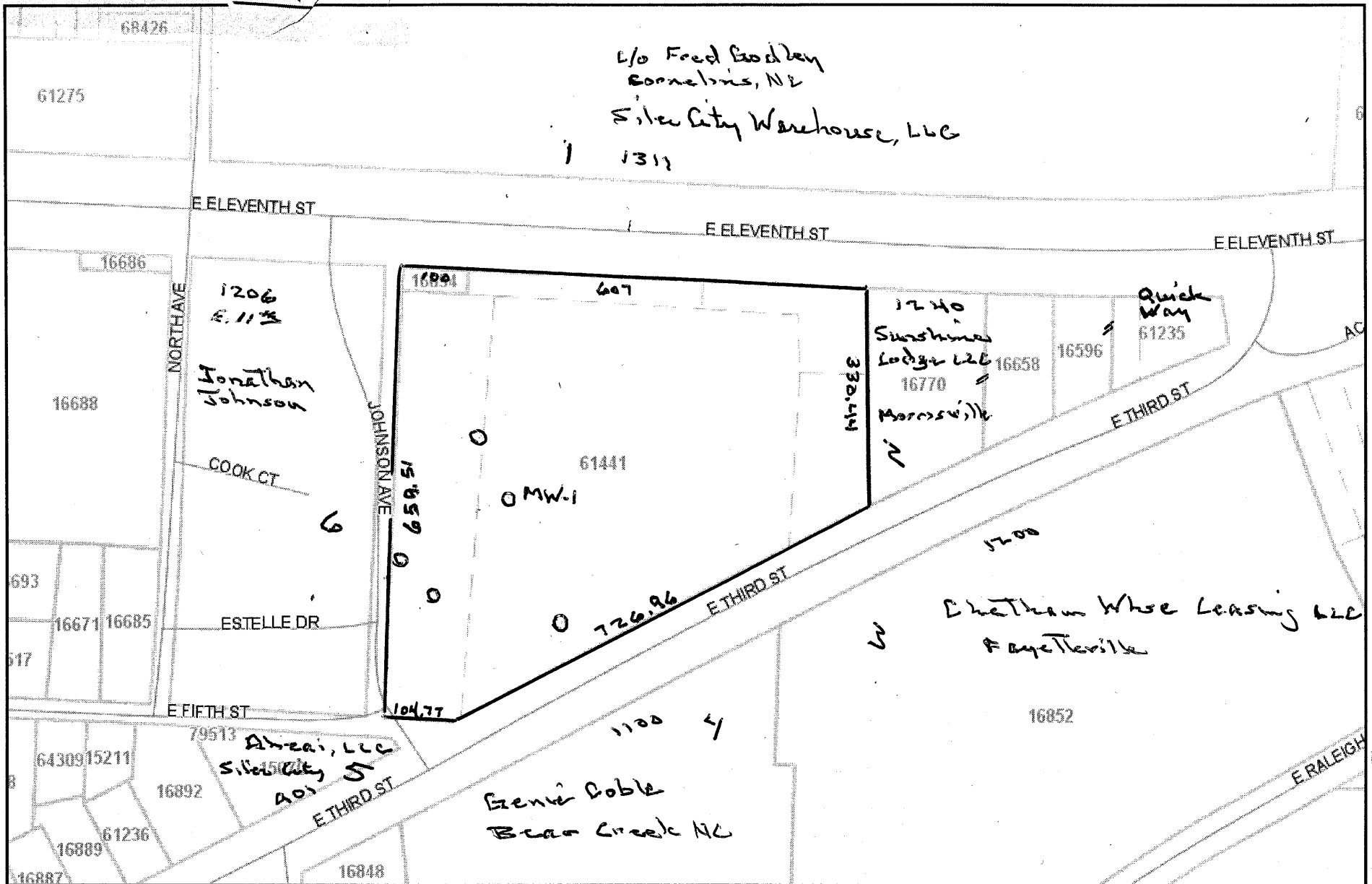
FIGURES

WGS84 79.45000° W



MN★TN
8½°
07/28/16

Field Survey Maps and Owner Information

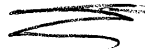


CHATHAM COUNTY, NC



Property Map

Disclaimer:
The data provided on this map are prepared for the inventory of real property found within Chatham County, NC and are compiled from recorded plats, deeds, and other public records and data. This data is for informational purposes only and should not be substituted for a true title search, property appraisal, survey, or for zoning verification.



35.73208
79.45079



One Inch = 200 Feet

Cohesion

From: Beverly Kay <beverly.kay@chathamnc.org>
Sent: Thursday, June 30, 2016 8:31 AM
To: mail@cohesion-inc.com
Cc: Carl Kivett
Subject: PN#1101 E. Third St., Siler City
Attachments: P61441.pdf; P61235.pdf; map.pdf

Dear Sir or Madam:

Please see the attached copy of the permit(s) you requested. We checked on this last week and I have attached the permits that we located. The surrounding properties you requested I quickly did a search by parcel number and only located one file that had anything. Parcel number 61235 had a letter from the state. The parcel number 61441 which is the 1101 e Third is in Siler City and most likely the surrounding parcel have city water & sewer. I attached a map of the surrounding parcels with the parcel numbers highlighted. If you need anything further please contact our office. My contact information is listed below.

Sincerely,

Beverly H. Kay
Environmental Health Technician
Chatham County Public Health Department
Environmental Health Division
PO BOX 130, 80 East Street
Pittsboro, NC 27312
PHONE: 919-542-8217
FAX: 919-542-8288
beverly.kay@chathamnc.org
www.chathamnc.org/environmentalhealth

Did you know that for every \$1 invested in food and nutrition education there is a \$10 return in reduced health care costs? Or that childhood immunizations save \$9.9 million in direct health care costs? Public Health saves lives and saves money too. Public Health week is April 6th-10th, 2016 but the Chatham Public Health Department celebrates the whole month of April! Check out the National Public Health Week website to see how we can become the healthiest nation in the world by 2030.

In keeping with the NC Public Records Law, emails, including attachments, may be released to others upon request for inspection and copying.

This email message may contain information that is privileged, confidential, and exempt from disclosure. It is intended for use only by the person to whom it is addressed. If you receive this message in error, please do not forward or use this information in any way. Delete it immediately and contact the sender as soon as possible by the reply option or by the telephone number listed. In the event you cannot fulfill your obligation or there has been any improper release of this information, please contact the Chatham County Public Health Department QA/QI/Compliance Officer at (919) 545-8324.

The District Health Department

CASWELL - CHATHAM - LEE - PERSON COUNTIES

Water Supply and Sewage Disposal

IMPROVEMENTS PERMIT No. VR-522
Date 8/11/86

Owner: Townsend's Incorp

Location: E. Third St.

Contractor: _____

Water Supply: Private ☒ Public ☐

Site #2 approved beside

maintenance garage at

Sewage Disposal Facilities: No. bedrooms _____ Dishwasher, Disposal,
washing machine, other automatic appliances site

Size of tank: _____ Nitrification line: marked
by metal stake

Other disposal facility: ditch around

site to facilitate surface
Water supply and sewage disposal facilities location, installation and
protection must meet state and local regulations.

Septic tank should be pumped out every 3 to 5 years and shall be main-
tained by owner in such a manner as not to create a public health hazard.
Septic tank and nitrification line MUST BE INSPECTED AND AP-
PROVED BY A MEMBER OF THE DISTRICT HEALTH DEPARTMENT
STAFF BEFORE ANY PORTION OF THE INSTALLATION IS COV-
ERED AND PUT INTO USE. men - 88

is slab required

Date approved: 8/11/86

Well: well casing

Sewage Disposal: 4' 8" sq. ft.

By: x 4" thick

Signed Virginia Ryan
Sanitarian

Counter-
signed Del Moore
(Owner or his representative)

Certificate of Completion

Date Approved: 8/11/86 By: Virginia Ryan
Sanitarian

(OVER)

Location of well and sewage disposal facilities sketched on back.

DATE: 8-18-86

WELL CERTIFICATION

COUNTY: Chatham

OWNER: Townsend

ROAD/STREET: _____

ADDRESS: Siler City N.C.

PERMIT NO. _____

DRILLING CONTRACTOR: T.J. Manor Well Drilling

NAME

ADDRESS

WELL CONSTRUCTION

Distance from Nearest Property Line 50 ft Distance from Source of Pollution _____

Total Depth: 500 Ft. Yield: 15 GPM Static Water Level: 40 Ft.

Water Bearing Zones: Dept: _____ Ft. _____ Ft. _____ Ft. _____ Ft.

Casing: Depth: From 0 to 49 Ft. Diameter: 6 1/4 Inches

TYPE: Steel _____ Galvanized Steel ☒ If Steel, does owner approve: Yes _____ NO

Weight: 13 1/2 lb. Thickness: .188 Height Above Ground: 16 Inches

Drive Shoe: Yes: ☒ NO: _____

Were Problems Encountered in Setting the Casing? Yes _____ No ☒

If "yes" give reason: _____

Grout: Type: Neat ☒ Sand/Cement? _____ Concrete _____

Annular Space Width 1.5 Inches Water in Annular Space: Yes ☒ No _____

Method: Pumped ☒ Pressure _____ Poured _____

Depth: From 0 to 30 Ft.

Materials Used: No. Bags Portland Cement 14 Weight of 1 bag 94 lbs.

If mixture (sand, gravel, cuttings) - Ratio: _____ to _____

ID Plates: Yes ☒ No _____ Chlorination: Yes _____ No _____ 4 x 4 slab Yes _____ No _____

DRILLING LOG

Depth		Formation Description
From	to	
<u>0 to 47 ft</u>	<u>47 ft to 500 ft</u>	<u>Red Clay</u>
		<u>Blue Flint</u>

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS CORRECT AND THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH REGULATIONS SET FORTH BY CASWELL-CHATHAM-LEE-PERSON DISTRICT HEA. DEPT

Calvin D. Manor 8-18-86
Signature of Contractor Date

FOR HEALTH DEPARTMENT USE ONLY

REASON FOR NO INSPECTION: _____

Sanitarian's Signature _____ Date _____

Sketch well location on reverse side. Use established reference points.

The District Health Department

CASWELL - CHATHAM - LEE - PERSON COUNTIES

Water Supply and Sewage Disposal

IMPROVEMENTS PERMIT No. 116501

Date 8/11/86

Owner: Townsend's Incorp.

Location: E. Third St.

Contractor: _____

Water Supply: Private ☒ well site ☐ approved ☐ behind

Public ☐

offices in wooded area

Sewage Disposal Facilities: No. bedrooms _____ Dishwasher, Disposal, washing machine, other automatic appliances beside

Size of tank: _____ Nitrification line: M.H. Park
maintain 10' off property line

Other disposal facility: _____

Water supply and sewage disposal facilities location, installation and protection must meet state and local regulations.

Septic tank should be pumped out every 3 to 5 years and shall be maintained by owner in such a manner as not to create a public health hazard. Septic tank and nitrification line MUST BE INSPECTED AND APPROVED BY A MEMBER OF THE DISTRICT HEALTH DEPARTMENT STAFF BEFORE ANY PORTION OF THE INSTALLATION IS COVERED AND PUT INTO USE.

slab required

Date approved: around

Well: well casing

Sewage Disposal: 4' x 8' ss. tank

By: 4' x 11' tank

Signed Virginia Ryan
Sanitarian

Counter-signed Joe Moore
(Owner or his representative)

Certificate of Completion

Date Approved: _____ By: _____
Sanitarian

(OVER)

Location of well and sewage disposal facilities sketched on back.

DATE: 8-18-86

WELL CERTIFICATION

COUNTY: Chatham

OWNER: Townsend

ROAD/STREET: _____

ADDRESS: Siler City, N.C.

PERMIT NO. _____

DRILLING CONTRACTOR: H.T. Manon Well Drilling Inc.

NAME

ADDRESS

WELL CONSTRUCTION

Distance from Nearest Property Line 50ft Distance from Source of Pollution _____

Total Depth: 425 Ft. Yield: 60 GPM Static Water Level: 30 Ft.

Water Bearing Zones: Dept: 80 Ft. 210 Ft. 385 Ft. _____ Ft.

Casing: Depth: From 0 to 34 Ft. Diameter: 6 3/4 Inches

TYPE: Steel _____ Galvanized Steel ☒ If Steel, does owner approve: Yes _____ No _____

Weight: 13 1/2 lb. Thickness: .188 Height Above Ground: 12 Inches

Drive Shoe: Yes: ☒ NO: _____

Were Problems Encountered in Setting the Casing? Yes _____ No ☒
If "yes" give reason: _____

Grout: Type: Neat ☒ Sand/Cement? _____ Concrete _____

Annular Space Width 1.5 Inches Water in Annular Space: Yes ☒ No _____

Method: Pumped ☒ Pressure _____ Poured _____

Depth: From 00 to 20 Ft.

Materials Used: No. Bags Portland Cement 8 Weight of 1 bag 94 lbs.

If mixture (sand, gravel, cuttings) - Ratio: _____ to _____

ID Plates: Yes ☒ No _____ Chlorination: Yes _____ No _____ 4 x 4 slab Yes _____ No _____

DRILLING LOG

Depth	Formation Description
From to	
<u>0 to 30ft</u>	<u>Red Clay</u>
<u>30ft to 425ft</u>	<u>Blue Flint</u>

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS CORRECT AND THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH REGULATIONS SET FORTH BY CASWELL-CHATHAM-LEE-PERSON DISTRICT HEA. DEP.

Calvin Manon
Signature of Contractor

8-18-86
Date

FOR HEALTH DEPARTMENT USE ONLY

REASON FOR NO INSPECTION: _____

Sanitarian's Signature _____ Date _____
Sketch well location on reverse side. Use established reference points.

CHATHAM COUNTY ENVIRONMENTAL HEALTH

P. O. Box 130 / 80 East St.
Pittsboro, N.C. 27312-0130
542-8208

WELL PERMIT

1000 S. 10th Avenue
Siler City, N. C. 27344
742-4911

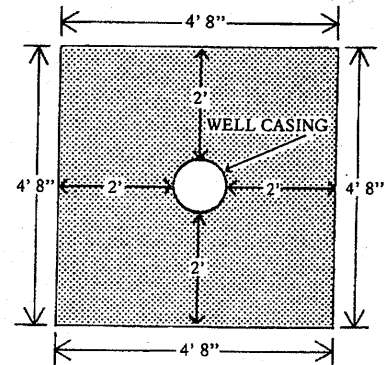
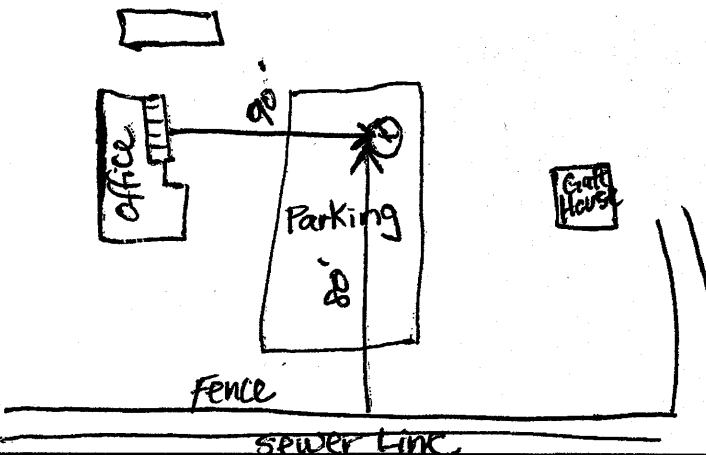
☒ New Well
☐ Replacement Well

THIS PERMIT EXPIRES FIVE
YEARS FROM DATE OF ISSUE.

OWNER Townsend, Inc. ADDRESS 1100 E. Third St.
Directions to Site 64' W @ E. Third St.

WELL TO SERVE: ☐ Residence ☐ Mobile Home Park ☒ Other Chicken dressing plant

Sketch of Well Site



CONCRETE WELL SLAB (top view)

Owner or contractor required to pour concrete slab around well casing, 4' 8" x 4' 8" x 4". MUST BE COMPLETED BEFORE APPROVAL OF PRIVATE WATER SUPPLY.

MAINTAIN 100' FROM ALL SEPTIC AREAS, 50' FROM ANY BUILDING FOUNDATION & 10' FROM ANY PROPERTY LINE.

WELL CONSTRUCTION

Distance from nearest property line 10'
Distance from source of pollution 100'
Total depth of well 860 ft. 1 1/2 @ 90 GPM 10
Water Bearing Zones: Depth 1 1/2 @ 90 Ft. 8 1/2 @ 370 Ft. 10 Ft. 10 Ft. 10 Ft.
Casing Depth: From 0 to 42 Ft. Diameter 6" 74
Static Water Level 25
Casing Type: Steel ☒ Galvanized Steel ☒ Thickness 0.188

If steel, does owner approve: ☐ Yes ☐ No

Drive Shoe ☒ Yes ☐ No Height of casing above ground 12" inches

Problems in setting casing ☐ Yes ☒ No Explain _____

Grout Type: ☐ Neat ☒ Sand/Cement ☐ Concrete Annular space width 2" In.

Water in Annular space ☐ Yes ☒ No Method of Grout: Pump ☐ Pressure ☐ Poured ☒

No. Bags of Portland Cement _____ Depth From _____ to _____ Ft.

Weight of 1 bag 94 lbs. Proper Slab Constructed ☒ ID Plate ☒ Chlorination ☒ Yes ☐ No

DEPTH		DRILLING LOG
From	To	FORMATION DESCRIPTION
0	10	Yellow Clay
10	35	Brownstone
35	860	gravel

I hereby certify that the above information is correct and that this well was constructed in accordance with the Chatham County Well Ordinance.

Chi Maues 2958
Signature of Contractor Date 10-8-07

Permit Issued By Jenni C. Ritter R.S.

Well Grout Inspected by Jenni C. Ritter R.S.

Inspection Completed by Slab no longer required

Date 10-307

Date 10-8-07

Date 3/22/10 XW

Third Street

911 Address

Townsend

NAME/SUBDIVISION

Cohesion

From: Terry Green <tgreen@silercity.org>
Sent: Friday, July 29, 2016 8:23 AM
To: mail@cohesion-inc.com
Subject: 1100 E.3rd

Joey Smith asked me to answer your questions that you had. First I am assuming that you are talking about the MHP behind 1202 E. 11th St. It does have city water as well as 1100 E. 3rd St. I hope this answers your questions. If not just let me know. Thanks

APPENDIX B

Limited Site Assessment Risk Classification And Land Use Form

Limited Site Assessment Risk Classification and Land Use Form

Part I - Groundwater/Surface Water/Vapor Impacts

High Risk

1. Has the discharge or release contaminated any supply well(s) including any used for non-drinking purposes? YES/NO

If yes, explain.

No wells were tested.

2. Is a water supply well used for drinking water located within 1000 feet from the source area of the discharge or release? YES/NO

If yes, explain.

Three supply wells within 250 feet. Assumed use is for process water. Potable use is uncertain.

3. Is a water supply well used for any purpose (e.g., irrigation, washing cars, industrial cooling water, filling swimming pools) located within 250 feet from the source area of the release or discharge?

YES/NO

If yes, explain.

Three supply wells within 250 feet. Assumed use is for process water. Potable use is uncertain.

4. Does groundwater within 500 feet from the source area of the discharge or release have the potential for future use in that there is no other source of water supply than the groundwater?

YES/NO

If yes, explain.

5. Do vapors from the discharge or release pose a threat of explosion due to the accumulation of vapors in a confined space or pose any other serious threat to public health, public safety or the environment? YES/NO

If yes, explain.

6. Are there any other factors that would cause the discharge or release to pose an imminent danger to public health, public safety or the environment? YES/NO

If yes, explain.

Intermediate Risk

7. Is a surface water body located within 500 feet from the source area of the discharge or release? YES/**NO**

If yes, explain.

If yes, does the maximum groundwater contaminant concentration exceed the surface water quality standards and criteria found in 15A NCAC 2B .0200 by a factor of 10? YES/**NO**

If yes, explain.

8. Is the source area of the discharge or release located within a designated wellhead protection area as defined in 42 USC 300h-7(e)? YES/**NO**

If yes, explain.

9. Is the discharge or release located in the Coastal Plain physiographic region as designated on a map entitled "Geology of North Carolina" published by the Department in 1985? YES/**NO**

If yes, explain.

If yes, is the source area of the discharge or release located in an area which recharges to an unconfined or semi-confined deeper aquifer that is being used or may be used as a source of drinking water?

If yes, explain.

10. Do the levels of groundwater contamination for any contaminant exceed the gross contamination levels established (see Table 7) by the Department? YES/**NO**

If yes, explain. _____

Part II - Land Use

Property Containing Source Area of Discharge or Release

The questions below pertain to the property containing the source area of the release.

1. Does the property contain one or more primary or secondary residences (permanent or temporary)? YES/**NO**

If yes, explain.

2. Does the property contain a school, daycare center, hospital, playground, park, recreation area, church, nursing home, or other place of public assembly? YES/**NO**

If yes, explain.

3. Does the property contain commercial (e.g. retail, warehouse, office/business space, etc.) or industrial (e.g. manufacturing, utilities, industrial research and development, chemical/petroleum bulk storage, etc.) enterprise, an inactive commercial or industrial enterprise, or is the land undeveloped? **YES**/NO

If yes, explain.

The site is currently an inactive chicken processing plant.

4. Do children visit the property? YES/**NO**

If yes, explain.

5. Is access to the property reliably restricted consistent with its use (e.g., by fences, security personnel or both)? **YES**/NO

Explain.

Fenced and locked gate.

6. Do pavement, buildings, or other structures cap the contaminated soil? YES/**NO**

Explain.

If yes, what mechanisms are in place or can be put in place to ensure that the contaminated soil will remain capped in the future?

7. What is the zoning status of the property?

The zoning status is commercial.

8. Is the use of the property likely to change in the next 20 years? YES/**NO**

If yes, explain.

Property Surrounding Source Area of Discharge or Release

The questions below pertain to the area within 1500 feet from the source of the discharge or release (and exclude the property containing source area of the release):

11. What is the distance from the source area of the release to the nearest primary or secondary residence (permanent or temporary)?

There is a mobile home park within 300 feet west from the source of the release.

12. What is the distance from the source area of the release to the nearest school, daycare center, hospital, playground, park, recreation area, church, nursing home or other place of public assembly?

No such facilities were observed.

13. What is the zoning status of properties in the surrounding area?

The zoning status within 1,500 feet is mixed commercial/residential.

14. Briefly characterize the use and activities of the land in the surrounding area.

The immediate area is mixed commercial/residential development.

APPENDIX C

Well Construction Record

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

James D. Barker

Well Contractor Name

3106-A

NC Well Contractor Certification Number

Quantex, Inc.

Company Name

NA

2. Well Construction Permit #:

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural ☐ Municipal/Public
☐ Geothermal (Heating/Cooling Supply) ☐ Residential Water Supply (single)
☐ Industrial/Commercial ☐ Residential Water Supply (shared)
☐ Irrigation

Non-Water Supply Well:

- ☒ Monitoring ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge ☐ Groundwater Remediation
☐ Aquifer Storage and Recovery ☐ Salinity Barrier
☐ Aquifer Test ☐ Stormwater Drainage
☐ Experimental Technology ☐ Subsidence Control
☐ Geothermal (Closed Loop) ☐ Tracer
☐ Geothermal (Heating/Cooling Return) ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 5/20/16 MW-1

5. Well Location:

NA

NA

Facility/Owner Name

Facility ID# (if applicable)

1101 East 3rd Street, Siler City, NC 27344

Physical Address, City, and Zip

Chatham

NA

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.731658

79.450650

N

W

6. Is (are) the well(s): ☒ Permanent or ☐ Temporary

7. Is this a repair to an existing well: ☐ Yes or ☒ No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 33' (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: NA (ft.)
If water level is above casing, use "+."

11. Borehole diameter: ~6" (in.)

12. Well construction method: Auger
(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) Method of test:

13b. Disinfection type: Amount:

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
25 ft.	26 ft.	Tan Sandy Silt
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	18 ft.	2 in.	Sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
18 ft.	33 ft.	2 in.	0.010	Sch 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	14 ft.	Neat Cement	282 lbs. Poured
14 ft.	16 ft.	Bentonite	35 lbs. Pellets - Poured
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
16 ft.	33 ft.	#2 silica sand	pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	1 ft.	Grass/Brown Silt
1 ft.	13 ft.	Light Brown Clayey Silt
13 ft.	33 ft.	Tan Sandy Silt
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor: James D. Barker Date: 6/3/16

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

APPENDIX D

Analytical Laboratory Report

Cohesion, Inc.- Trustfund

Sample Delivery Group: L837139
Samples Received: 05/21/2016
Project Number: 2015066
Description: 1101 E. Thrld St.

Report To: Chris Boshoff
5216 Yates Mill Pond Rd.
Raleigh, NC 27606

Entire Report Reviewed By:



Mark W. Beasley
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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ONE LAB. NATIONWIDE.



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⁴Cn: Case Narrative	4
⁵Sr: Sample Results	5
MW-1 L837139-01	5
⁶Gl: Glossary of Terms	7
⁷Al: Accreditations & Locations	8
⁸Sc: Chain of Custody	9

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-1 L837139-01 GW				Collected by Bill Bibson	Collected date/time 05/20/16 12:30	Received date/time 05/21/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	
Semi Volatile Organic Compounds (GC/MS) by Method 625	WG874468	1	05/23/16 08:18	05/24/16 11:10	JF	
Semi-Volatile Organic Compounds (GC) by Method MADEPE	WG875207	1	05/25/16 07:07	05/25/16 14:23	DMG	
Semi-Volatile Organic Compounds (GC) by Method MADEPE	WG875207	1	05/25/16 07:07	05/25/16 14:44	DMG	
Volatile Organic Compounds (GC/MS) by Method 602MS	WG874777	1	05/28/16 13:12	05/28/16 13:12	JAH	
Volatile Organic Compounds (GC/MS) by Method 602MS	WG876750	25	05/31/16 22:45	05/31/16 22:45	BMB	
Volatile Petroleum Hydrocarbons by Method MADEPV	WG874517	1	05/23/16 03:03	05/23/16 03:03	BMB	

ACCOUNT:

Cohesion, Inc.- Trustfund

PROJECT:

2015066

SDG:

L837139

DATE/TIME:

06/01/16 15:57

PAGE:

3 of 9



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley
Technical Service Representative



Volatile Petroleum Hydrocarbons by Method MADEPV

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Volatile Petroleum Hydrocarbons	395		100	1	05/23/2016 03:03	WG874517
C5-C8 Aliphatics	395		100	1	05/23/2016 03:03	WG874517
C9-C12 Aliphatics	ND		100	1	05/23/2016 03:03	WG874517
C9-C10 Aromatics	ND		100	1	05/23/2016 03:03	WG874517
(S) 2,5-Dibromotoluene(FID)	107		70.0-130		05/23/2016 03:03	WG874517
(S) 2,5-Dibromotoluene(PID)	103		70.0-130		05/23/2016 03:03	WG874517

Volatile Organic Compounds (GC/MS) by Method 602MS

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	05/28/2016 13:12	WG874777
Toluene	ND		5.00	1	05/28/2016 13:12	WG874777
Ethylbenzene	ND		1.00	1	05/28/2016 13:12	WG874777
Total Xylenes	ND		3.00	1	05/28/2016 13:12	WG874777
Methyl tert-butyl ether	608		25.0	25	05/31/2016 22:45	WG876750
Di-isopropyl ether	14.6		1.00	1	05/28/2016 13:12	WG874777
(S) Toluene-d8	105		90.0-115		05/28/2016 13:12	WG874777
(S) Toluene-d8	102		90.0-115		05/31/2016 22:45	WG876750
(S) Dibromofluoromethane	89.5		79.0-121		05/31/2016 22:45	WG876750
(S) Dibromofluoromethane	126	J1	79.0-121		05/28/2016 13:12	WG874777
(S) 4-Bromofluorobenzene	98.3		80.1-120		05/28/2016 13:12	WG874777
(S) 4-Bromofluorobenzene	106		80.1-120		05/31/2016 22:45	WG876750

Semi-Volatile Organic Compounds (GC) by Method MADEPE

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Extractable Petroleum Hydrocarbon	ND		100	1	05/25/2016 14:44	WG875207
C9-C18 Aliphatics	ND		100	1	05/25/2016 14:23	WG875207
C19-C36 Aliphatics	ND		100	1	05/25/2016 14:23	WG875207
C11-C22 Aromatics	ND		100	1	05/25/2016 14:44	WG875207
(S) o-Terphenyl	97.0		40.0-140		05/25/2016 14:44	WG875207
(S) 1-Chloro-octadecane	90.3		40.0-140		05/25/2016 14:23	WG875207
(S) 2-Fluorobiphenyl	106		40.0-140		05/25/2016 14:44	WG875207
(S) 2-Bromonaphthalene	103		40.0-140		05/25/2016 14:44	WG875207

Semi Volatile Organic Compounds (GC/MS) by Method 625

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		1.00	1	05/24/2016 11:10	WG874468
Acenaphthylene	ND		1.00	1	05/24/2016 11:10	WG874468
Anthracene	ND		1.00	1	05/24/2016 11:10	WG874468
Benzidine	ND		10.0	1	05/24/2016 11:10	WG874468
Benzo(a)anthracene	ND		1.00	1	05/24/2016 11:10	WG874468
Benzo(b)fluoranthene	ND		1.00	1	05/24/2016 11:10	WG874468
Benzo(k)fluoranthene	ND		1.00	1	05/24/2016 11:10	WG874468
Benzo(g,h,i)perylene	ND		1.00	1	05/24/2016 11:10	WG874468
Benzo(a)pyrene	ND		1.00	1	05/24/2016 11:10	WG874468
Bis(2-chloroethoxy)methane	ND		10.0	1	05/24/2016 11:10	WG874468
Bis(2-chloroethyl)ether	ND		10.0	1	05/24/2016 11:10	WG874468
Bis(2-chloroisopropyl)ether	ND		10.0	1	05/24/2016 11:10	WG874468



Collected date/time: 05/20/16 12:30

L837139

Semi Volatile Organic Compounds (GC/MS) by Method 625

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
4-Bromophenyl-phenylether	ND		10.0	1	05/24/2016 11:10	WG874468
2-Chloronaphthalene	ND		1.00	1	05/24/2016 11:10	WG874468
4-Chlorophenyl-phenylether	ND		10.0	1	05/24/2016 11:10	WG874468
Chrysene	ND		1.00	1	05/24/2016 11:10	WG874468
Dibenz(a,h)anthracene	ND		1.00	1	05/24/2016 11:10	WG874468
3,3-Dichlorobenzidine	ND		10.0	1	05/24/2016 11:10	WG874468
2,4-Dinitrotoluene	ND		10.0	1	05/24/2016 11:10	WG874468
2,6-Dinitrotoluene	ND		10.0	1	05/24/2016 11:10	WG874468
Fluoranthene	ND		1.00	1	05/24/2016 11:10	WG874468
Fluorene	ND		1.00	1	05/24/2016 11:10	WG874468
Hexachlorobenzene	ND		1.00	1	05/24/2016 11:10	WG874468
Hexachloro-1,3-butadiene	ND		10.0	1	05/24/2016 11:10	WG874468
Hexachlorocyclopentadiene	ND		10.0	1	05/24/2016 11:10	WG874468
Hexachloroethane	ND		10.0	1	05/24/2016 11:10	WG874468
Indeno(1,2,3-cd)pyrene	ND		1.00	1	05/24/2016 11:10	WG874468
Isophorone	ND		10.0	1	05/24/2016 11:10	WG874468
Naphthalene	ND		1.00	1	05/24/2016 11:10	WG874468
1-Methylnaphthalene	ND		1.00	1	05/24/2016 11:10	WG874468
2-Methylnaphthalene	ND		1.00	1	05/24/2016 11:10	WG874468
Nitrobenzene	ND		10.0	1	05/24/2016 11:10	WG874468
n-Nitrosodimethylamine	ND		10.0	1	05/24/2016 11:10	WG874468
n-Nitrosodiphenylamine	ND		10.0	1	05/24/2016 11:10	WG874468
n-Nitrosodi-n-propylamine	ND		10.0	1	05/24/2016 11:10	WG874468
Phenanthrene	ND		1.00	1	05/24/2016 11:10	WG874468
Benzylbutyl phthalate	ND		3.00	1	05/24/2016 11:10	WG874468
Bis(2-ethylhexyl)phthalate	ND		3.00	1	05/24/2016 11:10	WG874468
Di-n-butyl phthalate	ND		3.00	1	05/24/2016 11:10	WG874468
Diethyl phthalate	ND		3.00	1	05/24/2016 11:10	WG874468
Dimethyl phthalate	ND		3.00	1	05/24/2016 11:10	WG874468
Di-n-octyl phthalate	ND		3.00	1	05/24/2016 11:10	WG874468
Pyrene	ND		1.00	1	05/24/2016 11:10	WG874468
1,2,4-Trichlorobenzene	ND		10.0	1	05/24/2016 11:10	WG874468
4-Chloro-3-methylphenol	ND		10.0	1	05/24/2016 11:10	WG874468
2-Chlorophenol	ND		10.0	1	05/24/2016 11:10	WG874468
2,4-Dichlorophenol	ND		10.0	1	05/24/2016 11:10	WG874468
2,4-Dimethylphenol	ND		10.0	1	05/24/2016 11:10	WG874468
4,6-Dinitro-2-methylphenol	ND	J3	10.0	1	05/24/2016 11:10	WG874468
2,4-Dinitrophenol	ND	J3 J4	10.0	1	05/24/2016 11:10	WG874468
2-Nitrophenol	ND		10.0	1	05/24/2016 11:10	WG874468
4-Nitrophenol	ND		10.0	1	05/24/2016 11:10	WG874468
Pentachlorophenol	ND		10.0	1	05/24/2016 11:10	WG874468
Phenol	ND		10.0	1	05/24/2016 11:10	WG874468
2,4,6-Trichlorophenol	ND		10.0	1	05/24/2016 11:10	WG874468
(S) Nitrobenzene-d5	50.6		21.8-123		05/24/2016 11:10	WG874468
(S) 2-Fluorobiphenyl	55.2		29.5-131		05/24/2016 11:10	WG874468
(S) p-Terphenyl-d14	74.4		29.3-137		05/24/2016 11:10	WG874468
(S) Phenol-d5	11.7		5.00-70.1		05/24/2016 11:10	WG874468
(S) 2-Fluorophenol	20.0		10.0-77.9		05/24/2016 11:10	WG874468
(S) 2,4,6-Tribromophenol	48.5		11.2-130		05/24/2016 11:10	WG874468



Abbreviations and Definitions

SDG	Sample Delivery Group.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.

Qualifier	Description
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



ACCOUNT:
Cohesion, Inc.- Trustfund

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